

configuration, and having proximal and distal secured sections which are secured to the catheter shaft and located at positions on the shaft which are between the proximal end and the distal end of the central working section of the balloon in the inflated configuration.

22. The balloon catheter of claim 21 wherein an angle between the central working section and the proximal and distal end portions is about 5 degrees to about 90 degrees.

23. The balloon catheter of claim 21 wherein an angle between the central working section and the proximal and distal end portions is about 30 degrees to about 50 degrees.

24. A catheter balloon, comprising:

a) proximal and distal secured sections securely sealing the catheter balloon to a catheter shaft proximate proximal and distal ends of the balloon, and extending parallel with and overlapped by an inflatable section of the balloon;

b) a centermost balloon section, a portion of which extends over the secured sections of the balloon when deflated; and

c) proximal and distal cone sections connecting each end of the centermost section of the catheter balloon to the secured sections of the balloon, wherein the balloon includes a conical angle as defined by the interior angle formed between the centermost section and the cone sections of the catheter balloon when inflated that is 90 degrees or less.